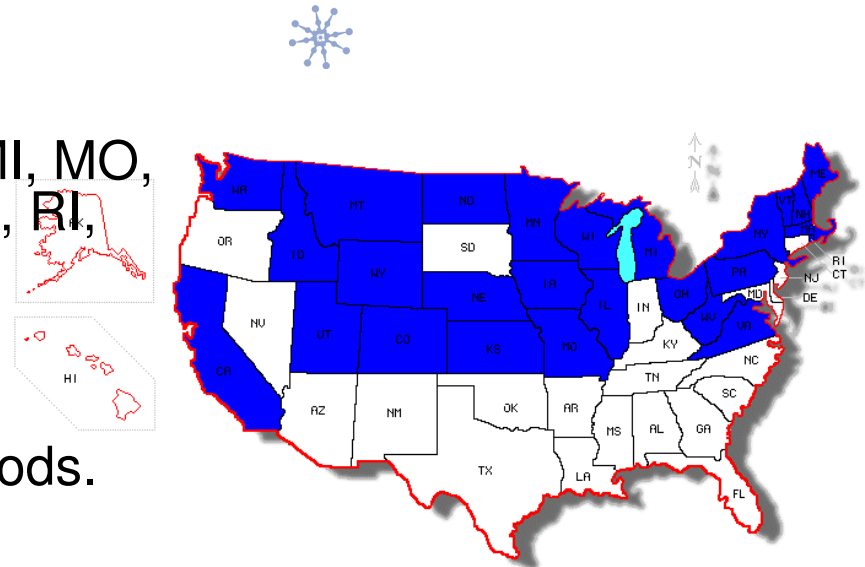# What is Clear Roads?

➤ 26 current members:
CA, CO, IA, ID, IL, KS, MA, ME, MI, MO, MN, MT, ND, NE, NH, NY, OH, PA, RI, UT, VA, VT, WA, WI, WV, WY

➤ Primary activities include:
- Evaluating winter maintenance materials, equipment and methods.
- Developing specifications and recommendations.
- Studying and promoting innovative techniques and technologies.
- Supporting technology transfer by developing practical field guides and training curriculum to promote the results of research projects.
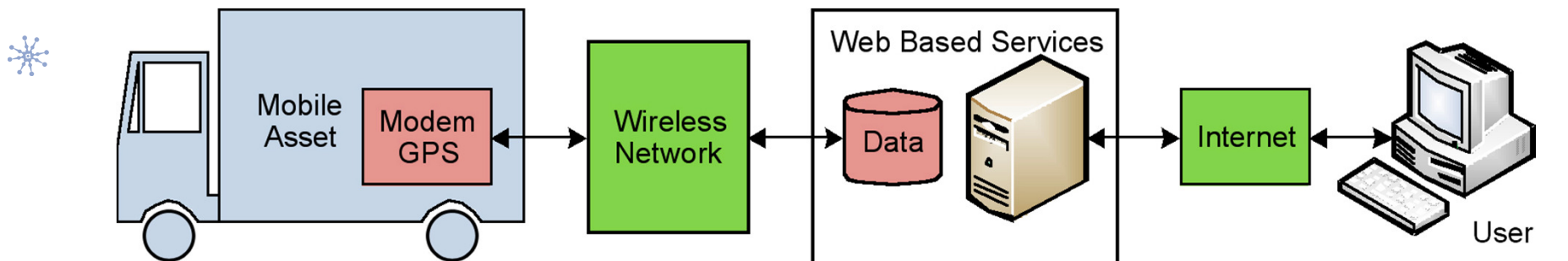
Problem

Sensors used on DOT vehicles are often provided by different vendors

Each vendor has their own proprietary communication protocols and data formats

Costly and time intensive to integrate the different systems into one data stream

Approach

Establish data collection requirements related to snow and ice operations focusing on data coming from device equipment

- Examples of onboard sensors include spread controllers, temperature sensors, plow up/down indicators, etc.

The data collection requirements would be used to guide the development of a translator or other standard approach for how data is received and stored.

Expected Results

A specification that each state can use in procurement that identifies a standard way to integrate data from a variety of devices and make it accessible for decision making.

CLEAR ROADS
research for winter highway maintenance

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